

#2

Docket No. END920010083

10/080963
JCG86 U.S. PRO
02/22/2022

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application: Murdock et al.

Group Art Unit: : IBM Corporation

Examiner: : Intellectual Property Law

Serial No.: : Dept. N50, Bldg. 040-4

Filed: Herewith : 1701 North Street

: Endicott, NY 13760

Title: PROGRAMMABLE AND ADAPTIVE TEMPORAL FILTER FOR VIDEO ENCODING

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

It is respectfully requested that the publications identified below and listed on the enclosed PTO-1449 Form(s) be considered by the United States Patent and Trademark Office (USPTO) in the subject United States patent application and be made of record therein. A copy of each publication is enclosed, and this submission is otherwise believed to be in compliance with 37 C.F.R. Sections 1.97 and 1.98. This information is all the material information, as defined in 37 C.F.R. Section 1.56(a), of which the submitter is aware. However, no representation is made or intended that a search has been made or that no other such material information exists.

PATENTS

- | | | | | | |
|-----|-----------|-----|-----------|-----|-----------|
| 1. | 4,882,627 | 2. | 5,367,629 | 3. | 5,438,374 |
| 4. | 5,502,489 | 5. | 5,557,330 | 6. | 5,606,373 |
| 7. | 5,621,465 | 8. | 5,621,468 | 9. | 5,764,307 |
| 10. | 5,867,221 | 11. | 5,926,220 | 12. | 5,926,224 |
| 13. | 5,953,506 | 14. | 5,959,693 | 15. | 5,974,193 |
| 16. | 5,977,947 | 17. | 6,005,626 | 18. | 6,037,986 |
| 19. | 6,061,100 | 20. | 6,067,125 | 21. | 6,108,047 |
| 22. | 6,208,693 | 23. | 6,233,277 | | |

BEST AVAILABLE COPY

24. Clear Motion Integrated Noise Reduction System, DiviCom, September 1999.
25. Interpolating Images To Higher Resolution Using A Feedforward 'Neural', IBM Technical Disclosure Bulletin, Vol. 35, No. 1A, June 1992.
26. "Design of HDTV subband filterbanks considering VLSI implementation constraints", Pestel, U.; Gruger, K., IEEE Trans. on Circuits and Systems for Video Technology, March 1991, vol. 1, Is. 1, pp. 14-21.
27. Efficient DCT-Domain Pre-filtering inside a Video Encoder, S.D. Kim, et al., Proceedings of the SPIE - The International Society for Optical Engineering, vol. 4067, pt. 1-3, pp. 1579-1588.
28. J.D. Greenfield, et al., pending U.S. patent application Serial No. 09/838,758, filed April 19, 2001, entitled "Simultaneous Vertical Spatial Filtering And Chroma Conversion In Video Images".

None of the above-cited publications, taken singularly or in combination, is believed to teach or suggest the invention as defined by the claims provided in the instant application.

Respectfully submitted,

Dated: January 21, 2002

By: Kevin P. Radigan

Kevin P. Radigan, Esq.

Reg. No. 31,789

Telephone No.: (518) 452-5600

Fax No.: (518) 452-5579

BEST AVAILABLE COPY

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				ATTY DOCKET NO. END920010083		SERIAL NO.	
				Murdock et al.			
				FILING Herewith		GROUP	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,882,627	11/21/89	Keesen et al.	358	166	
	AB	5,367,629	11/22/94	Chu et al.	395	162	
	AC	5,438,374	08/01/95	Yan	348	620	
	AD	5,502,489	03/26/96	Kim et al.	348	607	
	AE	5,557,330	09/17/96	Astle	348	394	
	AF	5,606,373	02/25/97	Dopp et al.	348	459	
	AG	5,621,465	04/15/97	Kondo	348	395	
	AH	5,621,468	04/15/97	Kim	348	416	
	AI	5,764,307	06/09/98	Ozcelik et al.	348	608	
	AJ	5,867,221	02/02/99	Pullen et al.	348	417	
	AK	5,926,220	07/20/99	Linzer	348	931	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES
							NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		AX	Clear Motion Integrated Noise Reduction System, DiviCom, September 1999.				
		AY	Interpolating Images To Higher Resolution Using A Feedforward 'Neural', IBM Technical Disclosure Bulletin, Vol. 35, No. 1A, June 1992.				
EXAMINER				DATE CONSIDERED			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

 ATTY DOCKET NO.
END920010083

SERIAL NO.

Murdock et al.

FILING

GROUP

Herewith

 U.S. PRO
 JC986 10/08/03 02/22/02
 JC986 10/08/03

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AL	5,926,224	07/20/99	Nagasawa	348	413	
	AM	5,953,506	09/14/99	Kalra et al.	395	200.61	
	AN	5,959,693	09/28/99	Wu et al.	348	624	
	AO	5,974,193	10/26/99	Baudouin	382	261	
	AP	5,977,947	11/02/99	Potu	345	127	
	AQ	6,005,626	02/21/99	Ding	348	416	
	AR	6,037,986	03/14/00	Zhang et al.	348	409	
	AS	6,061,100	05/09/00	Ward et al.	348	607	
	AT	6,067,125	05/23/00	May	348	607	
	AU	6,108,047	08/22/00	Chen	348	581	
	AV	6,208,693	03/27/01	Chen et al.	375	240.24	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	AZ	"Design of HDTV subband filterbanks considering VLSI implementation constraints", Pestel, U.; Gruger, K., IEEE Trans. on Circuits and Systems for Video Technology, March 1991, vol. 1, Is. 1, pp. 14-21.
	BA	Efficient DCT-Domain Pre-filtering inside a Video Encoder, S.D. Kim, et al., Proceedings of the SPIE - The International Society for Optical Engineering, vol. 4067, pt. 1-3, pp. 1579-1588.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. END920010083		SERIAL NO. 10/080963	
				Murdock et al.		FILING Herewith	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AW	6,233,277	05/15/01	Ozcelik et al.	375	240.02		
FOREIGN PATENT DOCUMENTS							
DOCUMENT NUMBER	DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
BB	J. D. Greenfield, et al., pending U.S. patent application Serial No. 09/838,758, filed April 19, 2001, entitled "Simultaneous Vertical Spatial Filtering And Chroma Conversion In Video Images".						
BEST AVAILABLE COPY							
EXAMINER				DATE CONSIDERED			

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.